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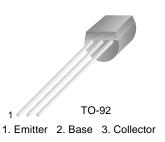
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SS9018

AM/FM Amplifier, Local Oscillator of FM/VHF Tuner

• High Current Gain Bandwidth Product f_T=1.1 GHz (Typ)



NPN Epitaxial Silicon Transistor

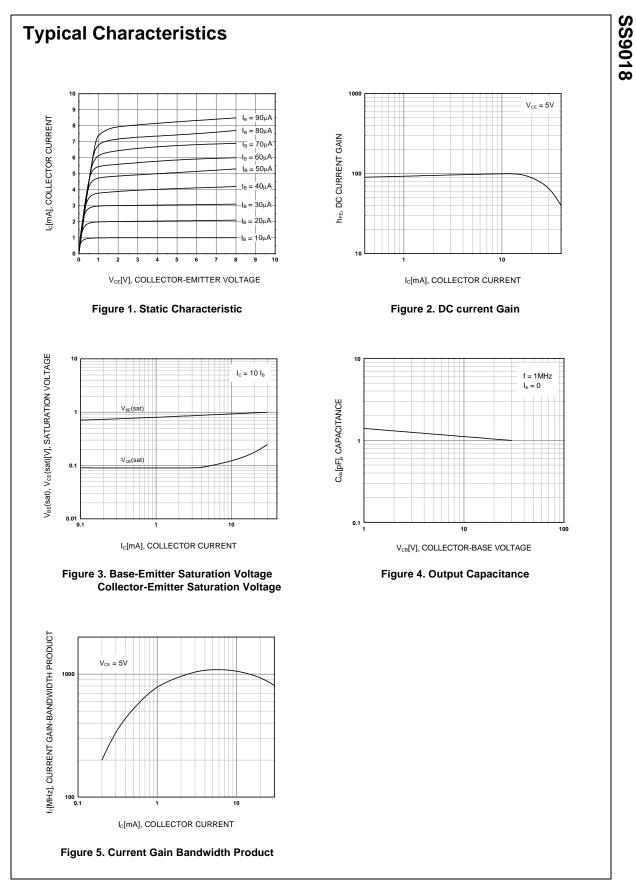
Absolute Maximum Ratings T _a =25°C unless otherwise noted							
Symbol	Parameter	Ratings	Units				
V _{CBO}	Collector-Base Voltage	30	V				
V _{CEO}	Collector-Emitter Voltage	15	V				
V _{EBO}	Emitter-Base Voltage	5	V				
I _C	Collector Current	50	mA				
P _C	Collector Power Dissipation	400	mW				
TJ	Junction Temperature	150	°C				
T _{STG}	Storage Temperature	-55 ~ 150	°C				

Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =1.0mA, I _B =0	15			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =12V, I _E =0			50	nA
h _{FE}	Emitter Cut-off Current	V _{CE} =5V, I _C =1.0mA	28	100	198	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =1mA			0.5	V
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0 f=1MHz		1.3	1.7	pF
f _T	Current Gain Bandwidth Product	V _{CE} =5V, I _C =5mA	700	1100		MHz

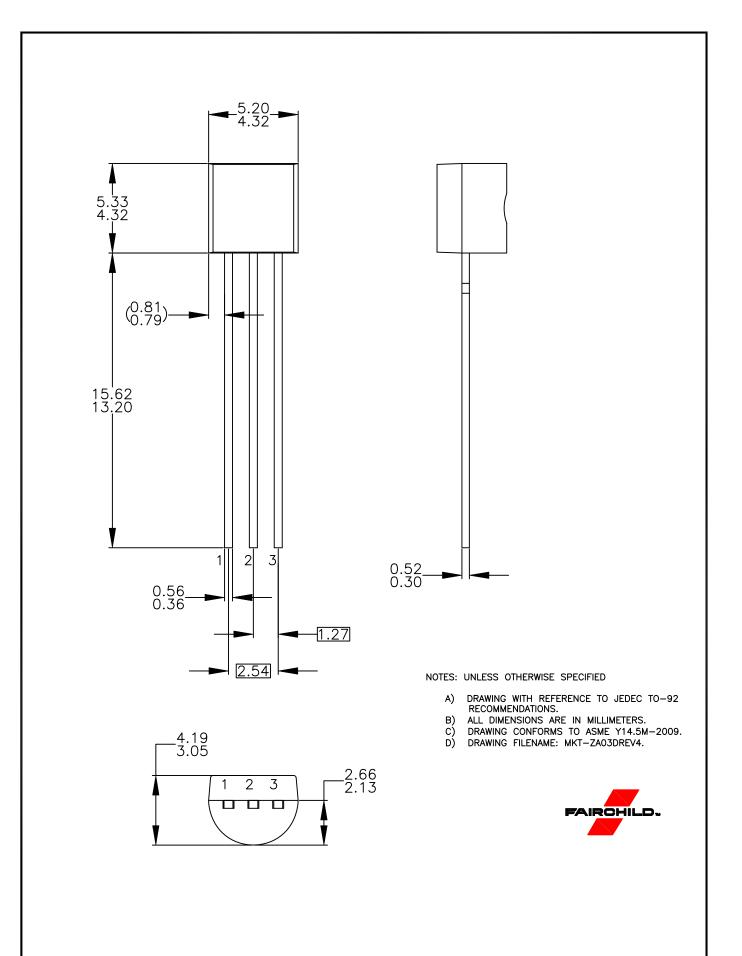
h_{FE} Classification

Classification	D	E	F	G	Н	I
h _{FE}	28 ~ 45	39 ~ 60	54 ~ 80	72 ~ 108	97 ~ 146	132 ~ 198



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Rev. A4, November 2002



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